

PATENT APPLICATION

for:

"Plasma cutting process with dual gas flow"

in the names of:

La Soudure Autogène Française

And

L'AIR LIQUIDE, Société Anonyme

À Directoire et Conseil de Surveillance

Pour l'Etude et l'Exploitation des Procédés Georges

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ABSTRACT

The invention relates to a plasma arc cutting process for cutting a metal workpiece, in which a dual-gas-flow torch fitted with an electrode with an emissive insert is used, the said torch delivering a central gas stream and an annular gas stream, the said annular stream being delivered peripherally to the central gas stream, characterized in that the central gas stream contains a hydrogen-nitrogen mixture and the peripheral gas stream contains carbon dioxide. The invention also relates to a unit comprising such a torch.

Figure 3